

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

Claim 1 (currently amended): A process comprising:

circulating a working fluid through a first a flow path, wherein the working fluid comprises molecules having a carbon-to-carbon bond;

pumping the ~~organic based-liquid~~ working fluid in liquid form to an elevated pressure;

flowing the ~~organic-based-liquid~~ working fluid through a heat exchanger comprising bipolar plates in a fuel cell stack;

heating the ~~organic-based-liquid~~ working fluid to a high temperature and high-pressure gas;

expanding the high temperature and high-pressure gas through an expander to produce shaft work;

using the shaft work to drive an air compressor for compressing air and delivering compressed air to a fuel cell subcomponent;

and removing energy from the gas to change the gas to the ~~organic-based-liquid~~ working fluid in liquid form;

and flowing hydrogen through a second flow path including the fuel cell stack to generate electricity using the hydrogen, and wherein the first flow path does not include a steam reforming reactor to reform the working fluid.

Claim 2 (previously presented): A process as set forth in claim 1 further comprising using the shaft work to drive a pump for pressurizing and delivering cooling fluid to a fuel cell system component.

Claims 3-6 (canceled).

Claim 7 (currently amended): A process of heating a fuel cell stack during relatively cold startup conditions comprising:

- a) pumping a fuel cell stack ~~organic-based~~ liquid cooling fluid to an elevated pressure, and wherein the liquid cooling fluid comprises molecules having a carbon-to-carbon bond;
- b) flow in the ~~organic-based~~ liquid cooling fluid through a heat exchanger in a fuel cell stack thereby transferring thermal energy between the fuel cell stack ~~organic-based~~ liquid cooling fluid and a ~~fuel-cells~~ fuel cell stack;
- c) heating the ~~organic-based~~ liquid cooling fluid;
- d) immediately thereafter expanding the heated cooling fluid in an expander to produce shaft work;
- e) using the shaft work to drive an air compressor for compressing air and delivering compressed air to the fuel ~~a-fuel~~ cell stack;

- f) directing the cooling fluid through a condenser comprising fans and wherein the condenser fans are turned off, and
- g) repeating steps (a-f) until the temperature of the fuel cell stack has reached a predetermined temperature suitable for operating the fuel cell under post-startup operating conditions.

Claim 8 (original): A process as set forth in claim 7 further comprising using the shaft work to drive a pump for pressurizing and delivering cooling fluid to a fuel cell system component.

Claim 9 (canceled).

Claim 10 (currently amended): A process as set forth in claim 1 wherein the ~~organic-based liquid-cooling working~~ fluid comprises $\text{CClF}_2\text{CClF}_2$.

Claim 11 (currently amended): A process as set forth in claim 7 wherein the ~~organic-based~~ liquid cooling fluid comprises $\text{CClF}_2\text{CClF}_2$.